

2.0 Powertrain Harness

Date: October 25, 2021
Bulletin Name: FDM-SVC-015
Model: Oshkosh S-Series
Units Affected: 2.0 Front Discharge Mixers
 through VIN 813362

Purpose:

This bulletin provides instruction for installing a new updated powertrain harness. Engineering made updates to improve the powertrain harness and has made the updated harness available as a service kit.

Notice:

- This bulletin should be read and understood in its entirety before performing this procedure.
- All procedures outlined in the bulletin must be performed by skilled service personnel. Refer to the product service manual for descriptions of maintenance procedures.

SAFETY NOTICE

Perform your company's Lockout/Tagout procedure. If your company does not have a Lockout/Tagout procedure, follow OSHA 1910.147 and 1910.146 Confined Space as appropriate.

SAFETY NOTICE

Use appropriate Personal Protective Equipment (PPE) as required by your company.

Tools and Equipment Required:

Customer to supply:

- Hand tools
- Torque wrench (foot pounds and inch pounds)
- Zip ties
- Electrical RTV

Parts Required:

Item	Part Number	Description	Qty.
1	A000U647	WIRE HARN, POWERTRAIN	1

Procedure:

Lockout/Tagout

1. Place unit on a flat surface, engage parking brake, chock truck tires, and perform your company's Lockout/Tagout procedure. If your company does not have a Lockout/Tagout procedure, follow OSHA 1910.147 and 1910.146 Confined Space as appropriate.
2. The vehicle's BATTERY DISCONNECT switch is located on the left-hand side of the battery box. Use the battery disconnect switch when performing any maintenance so the vehicle cannot accidentally be started.
 - a. Turn the battery disconnect switch (Figure A, Item 1) counterclockwise so the hole on the switch aligns with the hole in the bracket (Figure A, Item 2).
 - b. Install the safety lockout device ring (Figure B, Item 1) through the holes on the battery disconnect switch and the bracket.
 - c. Install a padlock (Figure B, Item 2) onto the safety lockout device ring, lock it, and put the key in your pocket. If more than one person is working on the vehicle, each person must install his or her own padlock.

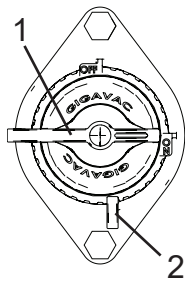


Figure A

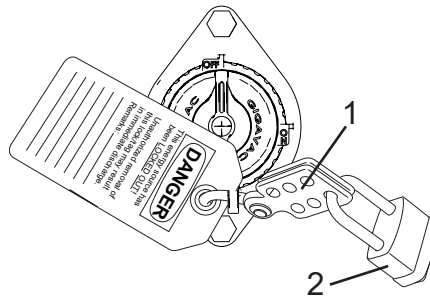


Figure B

Powertrain Harness Installation

Use existing vehicle powertrain harness as a guide when routing new harness. Remove existing harness connectors before installing new harness connectors.

Reuse saddle and P-clips to secure new harness.

Cut and replace zip ties as needed when routing new harness.

Remove RTV sealant from ground/electrical connections as required. Reapply RTV on required ground/electrical connections after installation of new harness.

3. Connect the following connectors to right side of vehicle engine, see Figure 1.
 - C52 - CES Connector
 - C59 - Water In Fuel Connector
 - C91 - OEM Connector
 - C361 - OEM Crossover Connector
 - C1290 - Cooling Harness to Engine Harness Connector
 - GND16 - Ground (remove RTV for installation of ground GND16. Apply RTV to completely cover ground after installation of GND16)

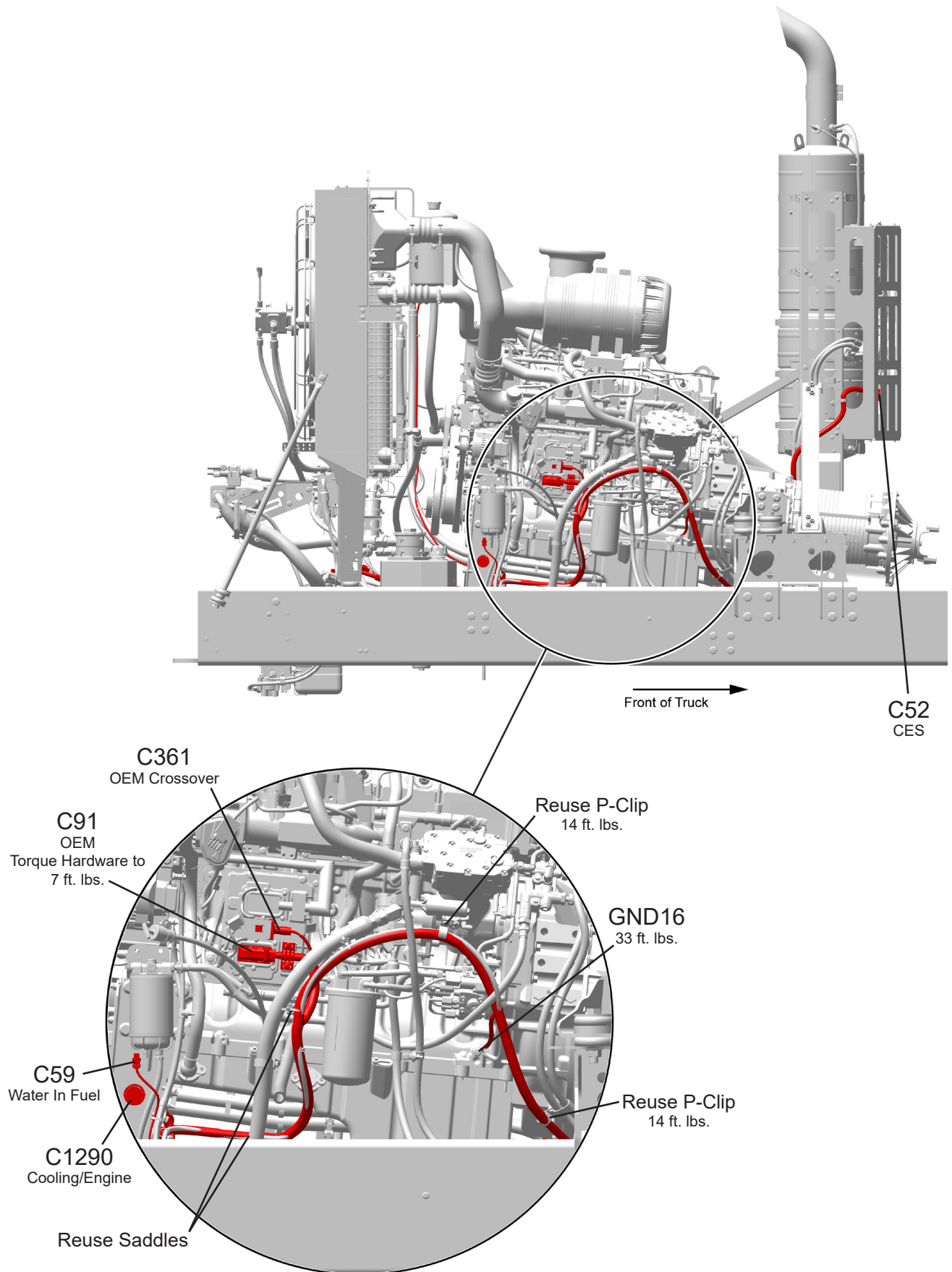


Figure 1

4. Route transmission side of harness under engine/transmission to left side of vehicle, see Figure 2.
5. Route radiator side of harness under front of engine to left side of vehicle, see Figure 2.

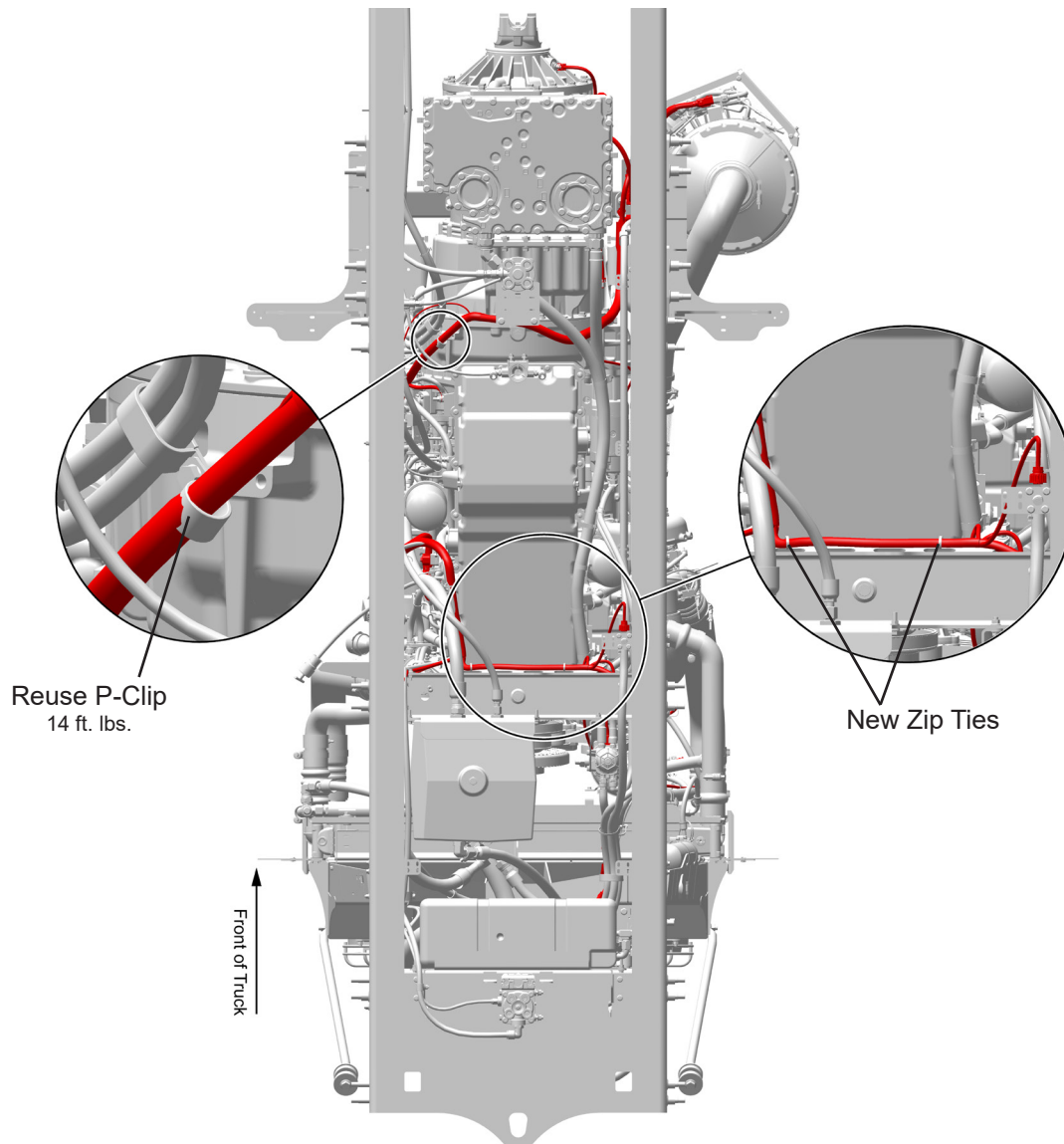


Figure 2

6. Connect the following connectors to left side of vehicle engine/transmission, see Figure 3.

- C25 - DL Terminator
- C41 - Transmission Connector
- C42 - Turbine Speed Connector
- C46 - Transmission Control Module Connector
- C60 - Output Speed Connector
- C62 - Engine Speed Connector
- EC461_START - Starter Lead

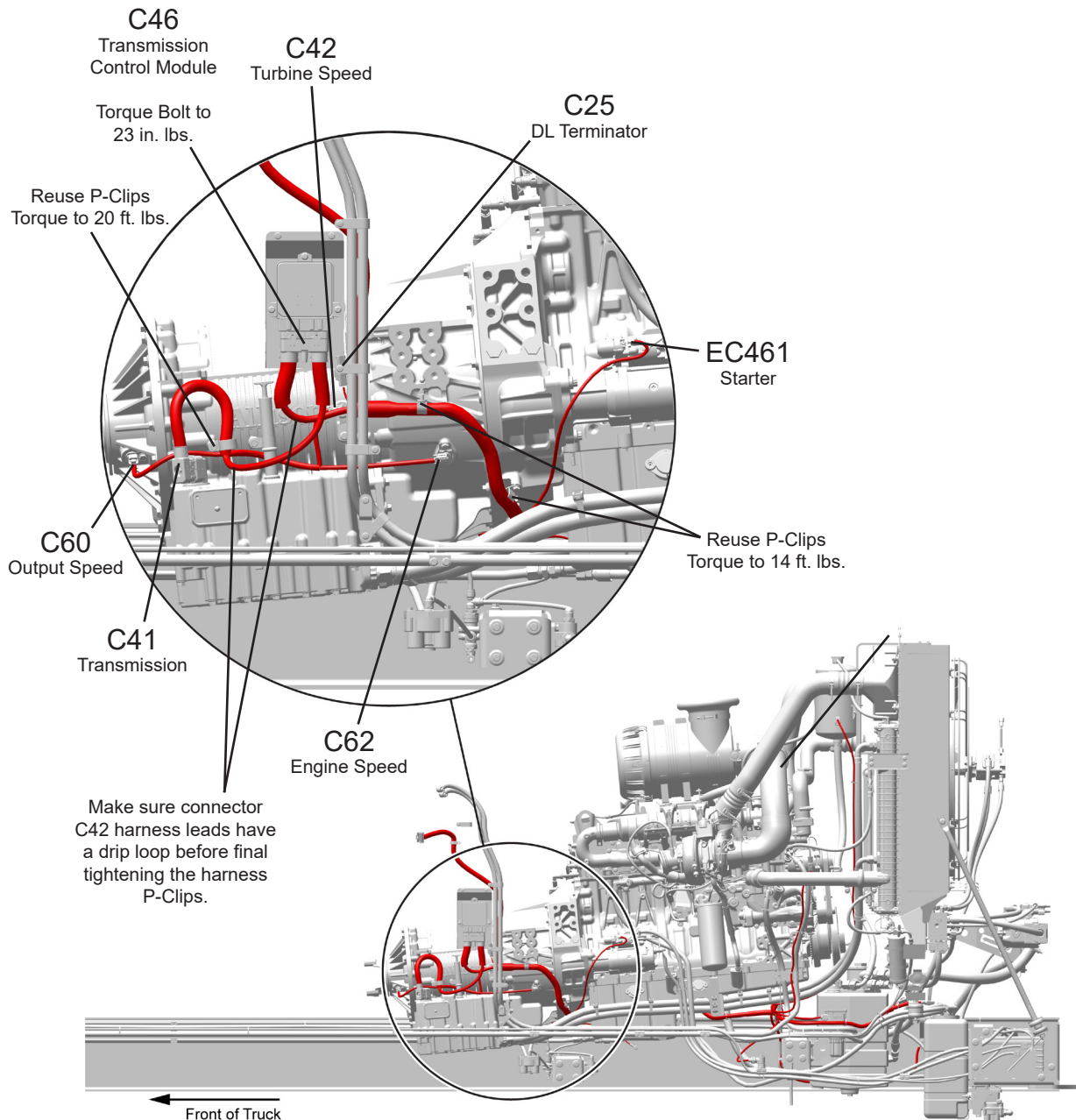


Figure 3

7. Connect the following connectors to left side of vehicle DEF system, AC compressor and coolant reservoir, see Figure 4.

- C44 - DEF Tank Heater Valve Connector
- C90 - CES terminator
- C159 - Coolant Level Sensor Connector
- C390 - DEF Tank Connector
- C391 - DEF Supply Pump Connector
- C940 - AC Compressor

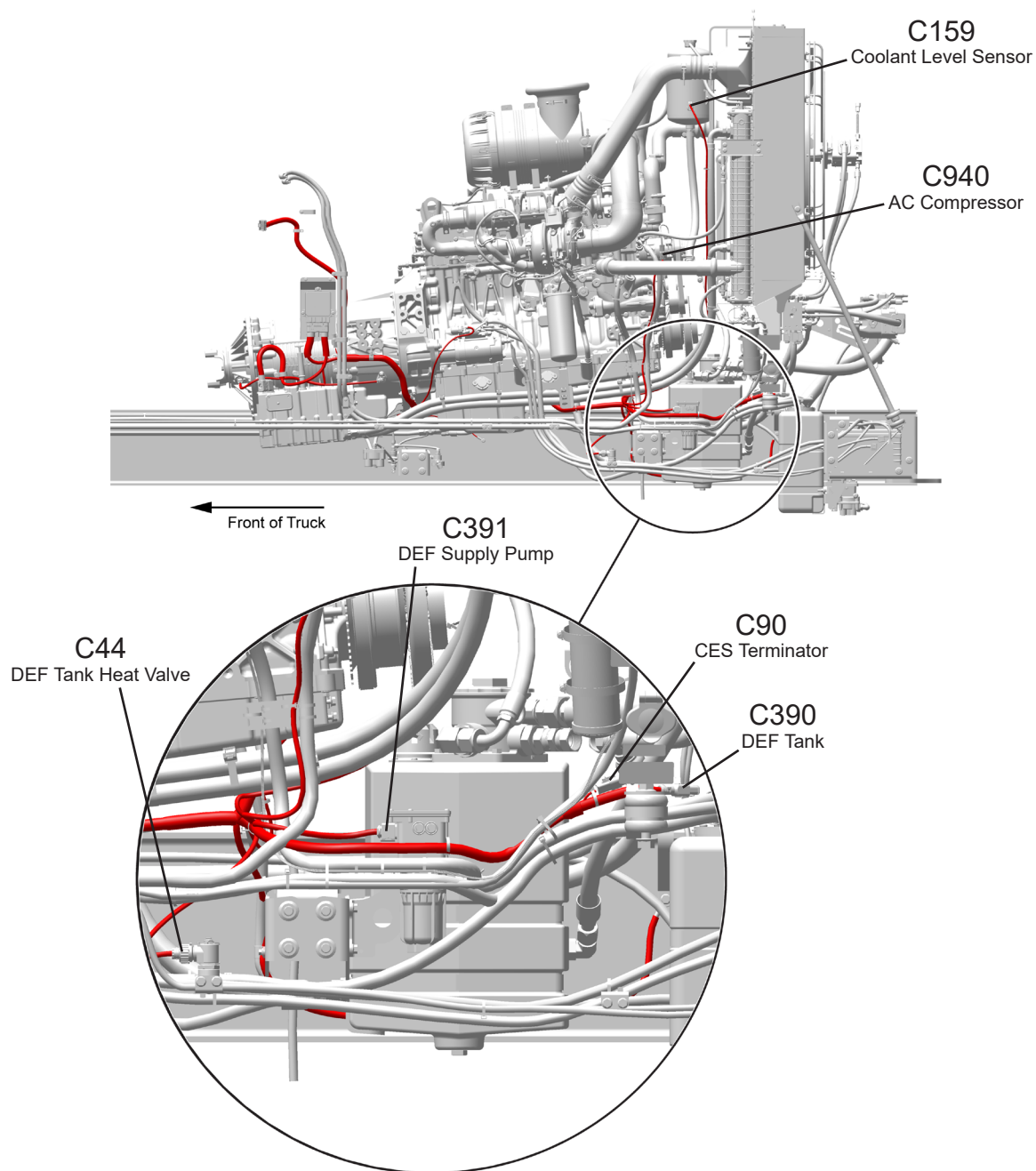


Figure 4

8. Connect ground T9-5 to right side frame ground stud, see Figure 5. Remove RTV for installation of ground T9-5. Apply RTV to completely cover ground after installation of T9-5.

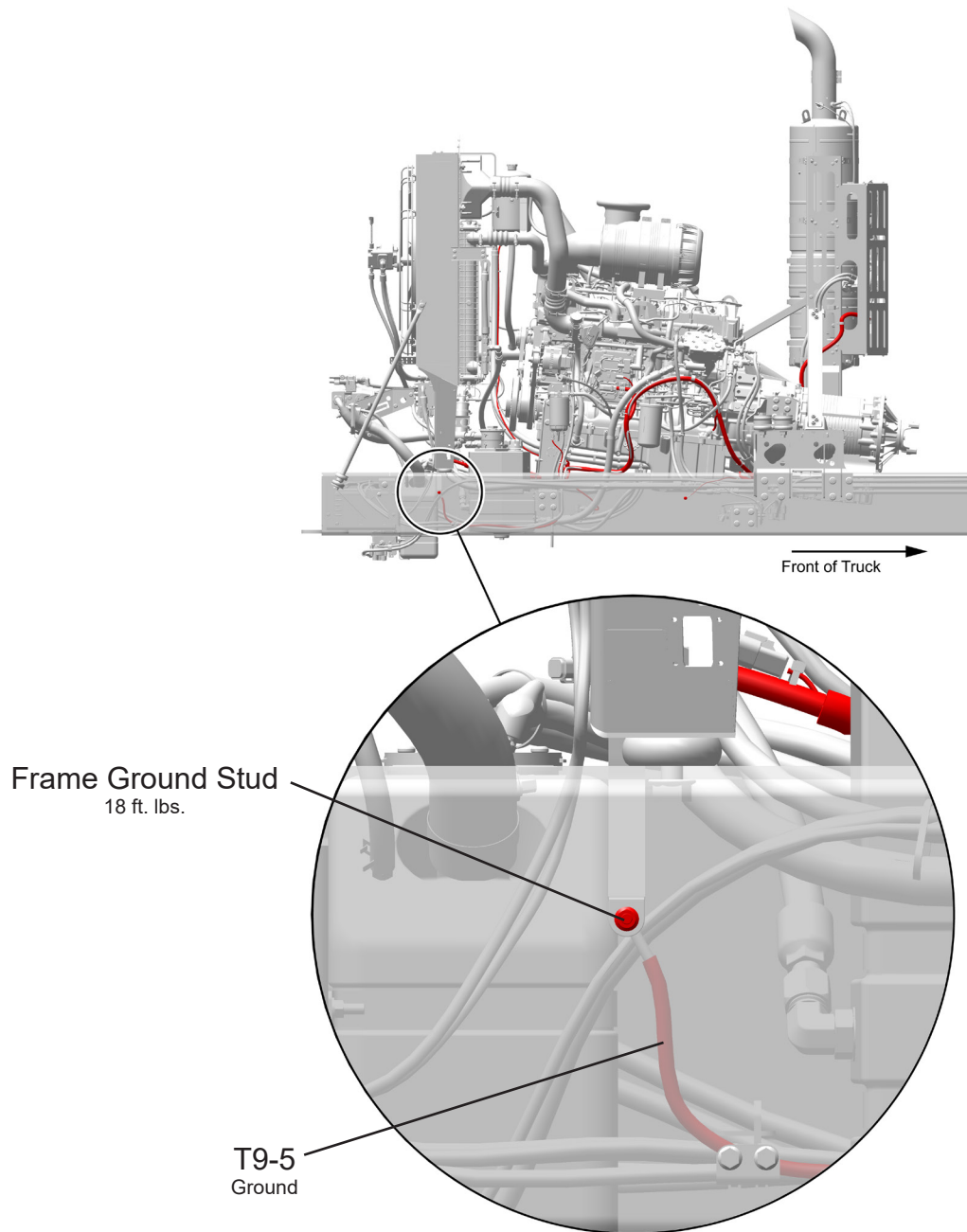


Figure 5

9. Connect ground T1357 to either a new frame ground or existing stauff clamp, see Figure 6.

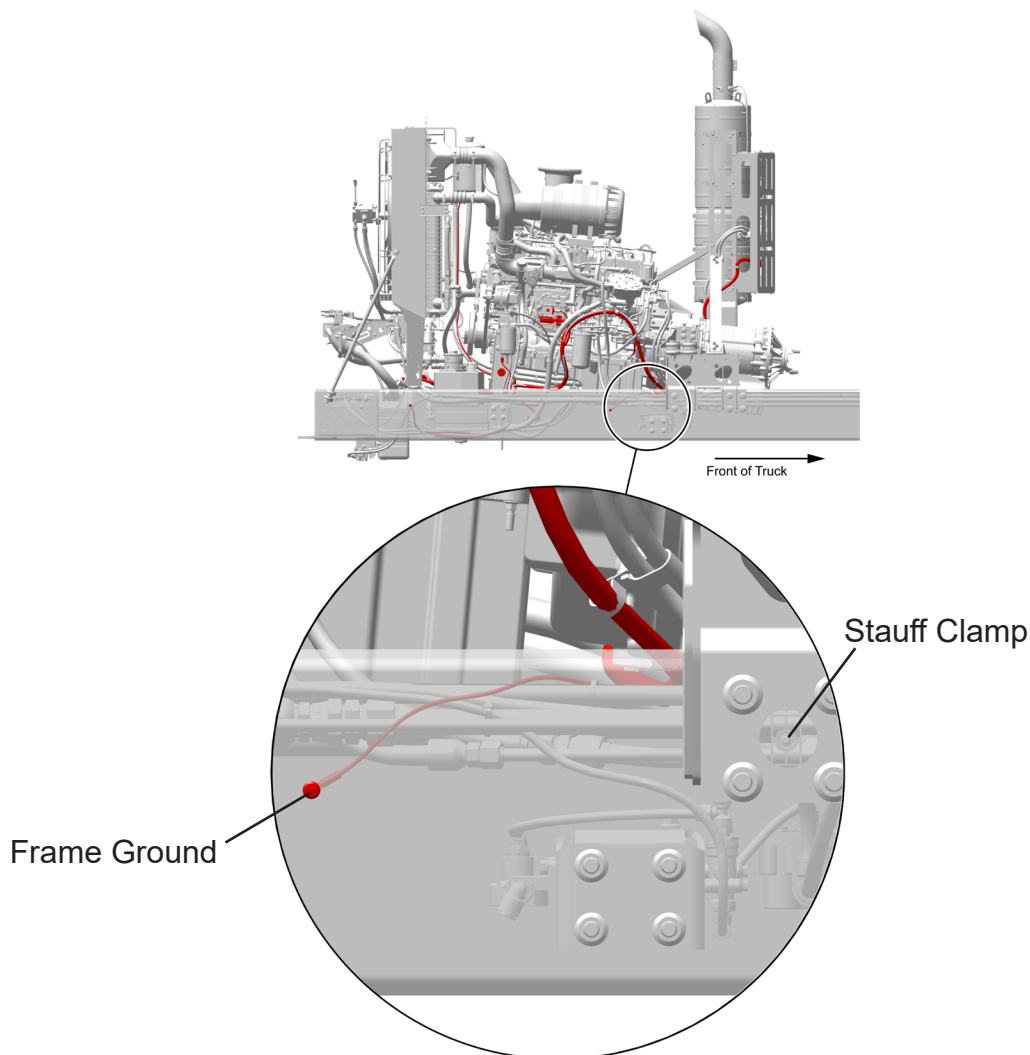


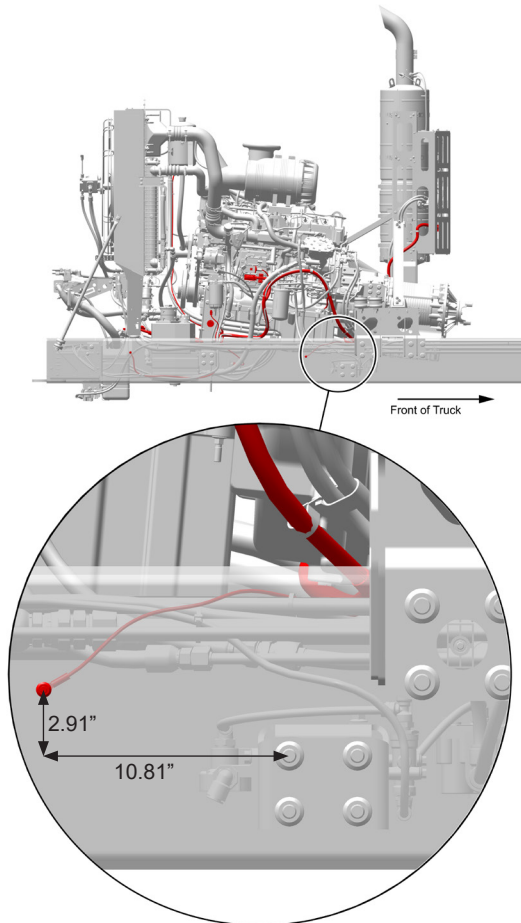
Figure 6

New Frame Ground Option

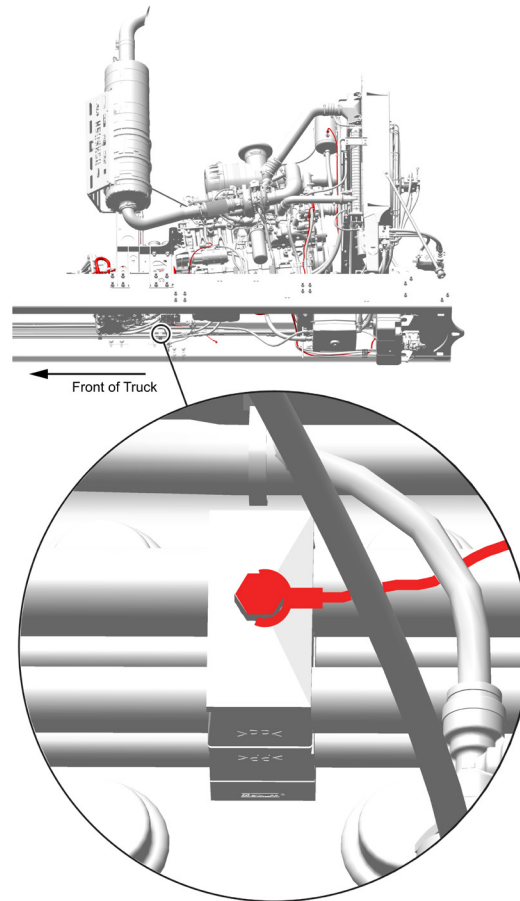
- Drill a 0.344" hole in frame at location shown in Figure 7.
- Spot face the frame around the drilled hole by removing paint, primer, lacquer oxides, corrosion, oils and/or grease from frame.
- Secure ground T1357 to frame with 0.31-18 grade 8 hardware. Final tighten hardware to 18 ft. lbs.
- Apply RTV to completely cover ground assembly.

Existing Stauff Clamp Option

- Remove existing hardware from stauff clamp, see Figure 7.
- Place T1357 between stauff clamp cap and bolt.
- Reinstall hardware and torque to 9 ft. lbs.
- Apply RTV to completely cover ground terminal and bolt head.



New Frame Ground Option



Existing Stauff Clamp Option

Figure 7

10. Make sure harness is routed and secured with clamps and zip ties as needed.
11. Remove original powertrain harness from vehicle.
12. Remove lockout/tagout and tire chocks.

Continuous Improvement:

The change included in this document is part of the McNeilus Continuous Improvement Process.

McNeilus's quality policy is providing customer satisfaction through innovative products, dedicated service, and a constant focus on continuous improvement.



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